



SEQUENCE LISTING

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<120> IMPROVED HEAT SHOCK PROTEIN-BASED
VACCINES AND IMMUNOTHERAPIES

<130> 8449-406-999

<140> 10/820,067
<141> 2004-04-08

<150> 60/462,469
<151> 2003-04-11

<150> 60/463,746
<151> 2003-04-18

<150> 60/503,417
<151> 2003-09-16

<160> 926

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shock protein

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<222> 1, 3, 5, 7
<223> Xaa = hydrophobic amino acid residues

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<223> motif in heptameric region recognized by heat
shock protein

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<222> 1, 3, 5, 7,
<223> Xaa = hydrophobic amino acid residue, particularly
tryptophan, leucine or phenylalanine

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 <223> Xaa = any amino acid

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 <223> In the order of preference, with Ala the most preferred

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 Trp Leu Ser Leu Leu Val Pro Phe Val
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<213> Human Papilloma Virus

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Cys Lys Gly Val Asn Lys Glu Tyr Leu
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Trp residue

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Trp residue

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Trp residue

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 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 640
 Leu Ser Gln His Thr Asn Gly Trp
 1 5

 <210> 641

 <211> 8
 <212> PRT
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 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 641
 Asn Arg Leu Leu Leu Thr Gly Trp
 1 5

 <210> 642
 <211> 8
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 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 642
 Tyr Pro Leu Trp Val Ile Gly Trp
 1 5

 <210> 643
 <211> 8
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 <220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 643

Leu Leu Ile Ile Asp Arg Gly Trp
1 5

<210> 644

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 644

Arg Val Ile Ser Leu Gln Gly Trp
1 5

<210> 645

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 645

Glu Val Ser Arg Glu Asp Gly Trp
1 5

<210> 646

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 646

Ser Ile Leu Arg Ser Thr Gly Trp
1 5

<210> 647

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 647

Pro Gly Leu Val Trp Leu Gly Trp

1 5

<210> 648
 <211> 8
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 648
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 1 5

<210> 649
 <211> 8
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 649
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 1 5

<210> 650
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 Trp residue

<400> 650
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 1 5

<210> 651
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<220>
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 Trp residue

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<210> 652
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 <220>
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 Trp residue

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 1 5

 <210> 653
 <211> 8
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 Trp residue

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 1 5

 <210> 654
 <211> 8
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 Trp residue

 <400> 654
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 1 5

 <210> 655
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 <220>
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 Trp residue

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 1 5

 <210> 656
 <211> 8
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Trp residue

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Ser Val Leu Asp His Val Gly Trp
1 5

<210> 657

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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Trp residue

<400> 657

Asn Leu Leu Arg Arg Ala Gly Trp
1 5

<210> 658

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 658

Ser Gly Ile Ser Ala Trp Gly Trp
1 5

<210> 659

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 659

Phe Tyr Phe Trp Val Arg Gly Trp
1 5

<210> 660

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 660

Lys Leu Phe Leu Pro Leu Gly Trp

1 5

<210> 661
<211> 8
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<220>
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Trp residue

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<210> 662
<211> 8
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Trp residue

<400> 662
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1 5

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<212> PRT
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<220>
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Trp residue

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1 5

<210> 664
<211> 8
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 664
Leu Leu Arg Val Arg Ser Gly Trp
1 5

<210> 665
<211> 8

<212> PRT
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 665
 Glu Arg Arg Ser Arg Gly Gly Trp
 1 5

 <210> 666
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 666
 Arg Met Leu Gln Leu Ala Gly Trp
 1 5

 <210> 667
 <211> 8
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 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 667
 Arg Gly Trp Ala Asn Ser Gly Trp
 1 5

 <210> 668
 <211> 8
 <212> PRT
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 <220>
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 Trp residue

 <400> 668
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 1 5

 <210> 669
 <211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with a terminal

Trp residue

<400> 669

Ser Ser Ser Trp Asn Ala Gly Trp
1 5

<210> 670

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 670

Leu Gly His Leu Glu Glu Gly Trp
1 5

<210> 671

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 671

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1 5

<210> 672

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

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Phe Tyr Gln Leu Ala Leu Thr
1 5

<210> 673

<211> 8

<212> PRT

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<220>

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<400> 673

Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 674
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 <220>
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 <400> 674
 Arg Lys Leu Phe Phe Asn Leu Arg
 1 5

 <210> 675
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 Arg Lys Leu Phe Phe Asn Leu Arg Trp
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 <210> 676
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 <400> 676
 Lys Phe Glu Arg Gln
 1 5

 <210> 677
 <211> 7
 <212> PRT
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 <220>
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 Asn Ile Val Arg Lys Lys Lys
 1 5

 <210> 678
 <211> 8
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 <220>
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Arg Gly Tyr Val Tyr Gln Gly Leu
1 5

<210> 679
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Trp residue

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1 5

<210> 680
<211> 8
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Trp residue

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<210> 681
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Trp residue

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1 5

<210> 682
<211> 7
<212> PRT
<213> Artificial Sequence

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Trp residue

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1 5

<210> 683
 <211> 7
 <212> PRT
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 <220>
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 Trp residue

 <400> 683
 Leu Arg Arg Trp Ser Leu Trp
 1 5

 <210> 684
 <211> 7
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 <220>
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 Trp residue

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 Lys Trp Val His Leu Phe Trp
 1 5

 <210> 685
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

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 1 5

 <210> 686
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 686
 Ala Arg Leu Leu Leu Thr Trp
 1 5

 <210> 687
 <211> 7
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<220>
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 Trp residue

<400> 687
 Asn Ala Leu Leu Thr Trp
 1 5

<210> 688
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<220>
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 Trp residue

<400> 688
 Asn Arg Leu Ala Leu Thr Trp
 1 5

<210> 689
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 Trp residue

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<210> 690
 <211> 7
 <212> PRT
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<220>
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 Trp residue

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 1 5

<210> 691
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<220>
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 Trp residue

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 Asn Arg Leu Leu Leu Ala Trp
 1 5

<210> 692
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 <212> PRT
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

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 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

<210> 693
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 693
 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

<210> 694
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 Trp residue

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 1 5

<210> 695
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 695
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

<210> 696
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 <220>
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 Trp residue

 <400> 696
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 1 5

 <210> 697
 <211> 8
 <212> PRT
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 Trp residue

 <400> 697
 Asn Ile Val Arg Lys Lys Lys Trp
 1 5

 <210> 698
 <211> 9
 <212> PRT
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 <220>
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 Trp residue

 <400> 698
 Arg Gly Tyr Val Tyr Gln Gly Leu Trp
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 <210> 699
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 <220>
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 <400> 699
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 <210> 700
 <211> 4
 <212> PRT
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<220>
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 <400> 700
 Ala Lys Val Leu
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 <210> 701
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 <400> 701
 Phe Arg Lys Asn
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 <210> 702
 <211> 5
 <212> PRT
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 <220>
 <223> Linker for forming hybrid antigen

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 Phe Phe Arg Lys Asn
 1 5

 <210> 703
 <211> 8
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 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 703
 Tyr Thr Leu Val Gln Pro Leu Trp
 1 5

 <210> 704
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 704
 Thr Pro Asp Ile Thr Pro Lys Trp
 1 5

<210> 705
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 <220>
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 "Trp" residue

 <400> 705
 Thr Tyr Pro Asp Leu Arg Tyr Trp
 1 5

 <210> 706
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 <220>
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 "Trp" residue

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 Asp Arg Thr His Ala Thr Ser Trp
 1 5

 <210> 707
 <211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 707
 Met Ser Thr Thr Phe Tyr Ser Trp
 1 5

 <210> 708
 <211> 8
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 <220>
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 "Trp" residue

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 Tyr Gln His Ala Val Gln Thr Trp
 1 5

 <210> 709
 <211> 8
 <212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 709

Phe Pro Phe Ser Ala Ser Thr Trp
1 5

<210> 710

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 710

Ser Ser Phe Pro Pro Leu Asp Trp
1 5

<210> 711

<211> 8

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 711

Met Ala Pro Ser Pro Pro His Trp
1 5

<210> 712

<211> 8

<212> PRT

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<220>

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"Trp" residue

<400> 712

Ser Ser Phe Pro Asp Leu Leu Trp
1 5

<210> 713

<211> 8

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<220>

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"Trp" residue

<400> 713

His Ser Tyr Asn Arg Leu Pro Trp
1 5

<210> 714

<211> 8

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 714

His Leu Thr His Ser Gln Arg Trp
1 5

<210> 715

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 715

Gln Ala Ala Gln Ser Arg Ser Trp
1 5

<210> 716

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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"Trp" residue

<400> 716

Phe Ala Thr His His Ile Gly Trp
1 5

<210> 717

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 717

Ser Met Pro Glu Pro Leu Ile Trp
1 5

<210> 718
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

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 Ile Pro Arg Tyr His Leu Ile Trp
 1 5

 <210> 719
 <211> 8
 <212> PRT
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 "Trp" residue

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 1 5

 <210> 720
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 "Trp" residue

 <400> 720
 Lys Ala Pro Val Trp Ala Ser Trp
 1 5

 <210> 721
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 <220>
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 "Trp" residue

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 1 5

 <210> 722
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 "Trp" residue

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 1 5

 <210> 723
 <211> 8
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 "Trp" residue

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 1 5

 <210> 724
 <211> 8
 <212> PRT
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 "Trp" residue

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 1 5

 <210> 725
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 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 725
 Val Ser Ser Phe Val Thr Ser Trp
 1 5

 <210> 726
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 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 726
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1 5

<210> 727
<211> 8
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"Trp" residue

<400> 727
Gly Gln Trp Trp Ser Pro Asp Trp
1 5

<210> 728
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"Trp" residue

<400> 728
Gly Pro Pro His Gln Asp Ser Trp
1 5

<210> 729
<211> 8
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<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 729
Asn Thr Leu Pro Ser Thr Ile Trp
1 5

<210> 730
<211> 8
<212> PRT
<213> Artificial Sequence

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"Trp" residue

<400> 730
His Gln Pro Ser Arg Trp Val Trp
1 5

<210> 731
 <211> 8
 <212> PRT
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 "Trp" residue

 <400> 731
 Tyr Gly Asn Pro Leu Gln Pro Trp
 1 5

 <210> 732
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 <212> PRT
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 <220>
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 "Trp" residue

 <400> 732
 Phe His Trp Trp Trp Gln Pro Trp
 1 5

 <210> 733
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
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 "Trp" residue

 <400> 733
 Ile Thr Leu Lys Tyr Pro Leu Trp
 1 5

 <210> 734
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
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 "Trp" residue

 <400> 734
 Phe His Trp Pro Trp Leu Phe Trp
 1 5

 <210> 735
 <211> 8

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 735
 Thr Ala Gln Asp Ser Thr Gly Trp
 1 5

 <210> 736
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 736
 Phe His Trp Trp Trp Gln Pro Trp
 1 5

 <210> 737
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 737
 Phe His Trp Trp Asp Trp Trp Trp
 1 5

 <210> 738
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 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 738
 Glu Pro Phe Phe Arg Met Gln Trp
 1 5

 <210> 739
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 739
Thr Trp Trp Leu Asn Tyr Arg Trp
1 5

<210> 740
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"Trp" residue

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Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 741
<211> 8
<212> PRT
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"Trp" residue

<400> 741
Gln Pro Ser His Leu Arg Trp Trp
1 5

<210> 742
<211> 8
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<213> Artificial Sequence

<220>
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"Trp" residue

<400> 742
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1 5

<210> 743
<211> 8
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"Trp" residue

<400> 743
Phe His Trp Trp Trp Gln Pro Trp

1

5

<210> 744
<211> 8
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"Trp" residue

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1 5

<210> 745
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<213> Artificial Sequence

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<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 745
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1 5

<210> 746
<211> 8
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<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 746
Gln Leu Trp Ser Ile Tyr Pro Trp
1 5

<210> 747
<211> 8
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<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 747
Ser Trp Pro Phe Phe Asp Leu Trp
1 5

<210> 748

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<211> 8
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<220>
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      "Trp" residue

<400> 748
Asp Thr Thr Leu Pro Leu His Trp
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<210> 749
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<220>
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      "Trp" residue

<400> 749
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"Trp" residue

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"Trp" residue

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<210> 781

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<210> 782

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1 5

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<210> 787
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<212> PRT
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<210> 792

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"Trp" residue

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<212> PRT

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<210> 796

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<210> 797

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<210> 798

<211> 8

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<210> 799

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"Trp" residue

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1

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<210> 800

<211> 8
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 "Trp" residue

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 <210> 801
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 "Trp" residue

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 Cys Arg Phe His Gly Asn Arg Trp
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 <210> 802
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 "Trp" residue

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 <210> 803
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 "Trp" residue

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 <210> 804
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 "Trp" residue

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<210> 805
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<210> 806
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 "Trp" residue

<221> VARIANT
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<210> 807
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 "Trp" residue

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<210> 808
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 "Trp" residue

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 1 5

 <210> 809
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 "Trp" residue

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 1 5

 <210> 810
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 "Trp" residue

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 <210> 811
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 <221> VARIANT
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<210> 814
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<210> 816
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<210> 817
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<210> 819
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<210> 833
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 "Trp" residue

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<210> 834
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<210> 845
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 "Trp" residue

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<210> 847
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 <400> 847
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"Trp" residue

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<210> 853
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"Trp" residue

<400> 853
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<210> 854
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"Trp" residue

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1 5

<210> 855
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"Trp" residue

<400> 855

Thr Ile Trp Pro Pro Pro Val Trp
1 5

<210> 856
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<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 856
Gln Thr Lys Val Met Thr Thr Trp
1 5

<210> 857
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 857
Asn His Ala Val Phe Ala Ser Trp
1 5

<210> 858
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 858
Leu His Ala Ala Xaa Thr Ser Trp
1 5

<210> 859
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 859
Thr Trp Gln Pro Tyr Phe His Trp

1 5

<210> 860
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 860
 Ala Pro Leu Ala Leu His Ala Trp
 1 5

<210> 861
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 861
 Thr Ala His Asp Leu Thr Val Trp
 1 5

<210> 862
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 862
 Asn Met Thr Asn Met Leu Thr Trp
 1 5

<210> 863
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 863
 Gly Ser Gly Leu Ser Gln Asp Trp
 1 5

<210> 864
 <211> 8

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 864
 Thr Pro Ile Lys Thr Ile Tyr Trp
 1 5

 <210> 865
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 865
 Ser His Leu Tyr Arg Ser Ser Trp
 1 5

 <210> 866
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 866
 His Gly Gln Ala Trp Gln Phe Trp
 1 5

 <210> 867
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 867
 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

 <210> 868
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

<400> 868
 Ser Ile Ile Asn Phe Glu Lys Leu
 1 5

<210> 869
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 869
 His Trp Asp Phe Ala Trp Pro Trp
 1 5

<210> 870
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 870
 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

<210> 871
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 871
 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

<210> 872
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 872
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

<210> 873
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 873
 Ala Leu Phe Asp Ile Glu Ser Lys Val
 1 5

 <210> 874
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 874
 Ile Met Asp Gln Val Pro Phe Ser Val
 1 5

 <210> 875
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 875
 Tyr Met Asp Gly Thr Met Ser Gln Val
 1 5

 <210> 876
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 876
 Thr Leu Gly Ile Val Cys Pro Ile
 1 5

 <210> 877
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 877
 Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
 1 5 10

<210> 878
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 878
 Ala Leu Phe Asp Ile Glu Ser Lys Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

 <210> 879
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 879
 Arg Gly Tyr Val Tyr Gln Gly Leu
 1 5

 <210> 880
 <211> 19
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 880
 Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Ser Ile Ile Asn Phe
 1 5 10 15
 Glu Lys Leu

 <210> 881
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 881
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn
 1 5 10 15
 Phe Glu Lys Leu
 20

 <210> 882
 <211> 18
 <212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 882

Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Ser Ile Ile Asn Phe Glu
1 5 10 15
Lys Leu

<210> 883

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 883

Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Arg Gly Tyr Val Tyr
1 5 10 15
Gln Gly Leu

<210> 884

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 884

Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Gly Tyr Val
1 5 10 15
Tyr Gln Gly Leu
20

<210> 885

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 885

Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Arg Gly Tyr Val Tyr Gln
1 5 10 15
Gly Leu

<210> 886

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 886

Asn Leu Leu Arg Leu Thr Gly Trp Ala Lys Val Leu Ser Ile Ile Asn
1 5 10 15
Phe Glu Lys Leu
20

<210> 887

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 887

Asn Leu Leu Arg Leu Thr Gly Trp Gln Leu Lys Ser Ile Ile Asn Phe
1 5 10 15
Glu Lys Leu

<210> 888

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 888

Asn Leu Leu Arg Leu Thr Gly Trp Phe Arg Ser Ile Ile Asn Phe Glu
1 5 10 15
Lys Leu

<210> 889

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 889

Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ile Met Asp Gln
1 5 10 15
Val Pro Phe Ser Val
20

<210> 890

<211> 21

<212> PRT

<213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 890
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Tyr Met Asp Gly
 1 5 10 15
 Thr Met Ser Gln Val
 20

<210> 891
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 891
 Phe Ala Pro Gly Asn Tyr Pro Ala Leu
 1 5

<210> 892
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 892
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Phe Ala Pro Gly
 1 5 10 15
 Asn Tyr Pro Ala Leu
 20

<210> 893
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 893
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Glu Leu Ala Gly
 1 5 10 15
 Ile Gly Ile Leu Thr Val
 20

<210> 894
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

Lys Ala Ser Glu Lys Ile Phe Tyr Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 899
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 899
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ser Trp Asp
 1 5 10 15
 Phe Ile Thr Val
 20

<210> 900
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 900
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn
 1 5 10 15
 Phe Glu Lys Leu Phe Phe Arg Lys Arg Gly Tyr Val Tyr Gly Leu
 20 25 30

<210> 901
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 901
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Gly Tyr Val
 1 5 10 15
 Tyr Gln Gly Leu Phe Phe Arg Lys Ser Ile Ile Asn Phe Glu Lys Leu
 20 25 30

<210> 902
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 902
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Phe Glu Lys Leu Phe Phe Arg Lys Arg Gly Tyr Val Tyr Gln Gly Leu | | | |
| 20 | 25 | 30 | |

<210> 903
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

| | | | | | | | | | | | | | | | |
|---|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|
| <400> 903 | | | | | | | | | | | | | | | |
| Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Gly Tyr Val | | | | | | | | | | | | | | | |
| 1 | 5 | 10 | 15 | | | | | | | | | | | | |
| Tyr Gln Gly Leu Phe Phe Arg Lys Ser Ile Ile Asn Phe Glu Lys Leu | | | | | | | | | | | | | | | |
| 20 | 25 | 30 | | | | | | | | | | | | | |

<210> 904
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

| | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|
| <400> 904 | | | | | | | | | |
| Ile Ala Tyr Phe Tyr Pro Glu Leu | | | | | | | | | |
| 1 | 5 | | | | | | | | |

<210> 905
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

| | | | | | | | | | | | | | | | |
|---|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|
| <400> 905 | | | | | | | | | | | | | | | |
| Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn | | | | | | | | | | | | | | | |
| 1 | 5 | 10 | 15 | | | | | | | | | | | | |
| Phe Glu Lys Leu Phe Phe Arg Lys Arg Gly Tyr Val Tyr Gln Gly Leu | | | | | | | | | | | | | | | |
| 20 | 25 | 30 | | | | | | | | | | | | | |

<210> 906
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

| | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|
| <400> 906 | | | | | | | | | |
| Arg Thr Phe Ser Phe Gln Leu Ile | | | | | | | | | |
| 1 | 5 | | | | | | | | |

<210> 907
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 907
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Thr Phe Ser
1 5 10 15
Phe Gln Leu Ile
20

<210> 908
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 908
Thr Glu Trp Thr Ser Ser Asn Val Met Glu Glu Arg Lys Ile Lys Val
1 5 10 15

<210> 909
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 909
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Thr Glu Trp Thr
1 5 10 15
Ser Ser Asn Val Met Glu Glu Arg Lys Ile Lys Val
20 25

<210> 910
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 910
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Asp Ala Pro Ile
1 5 10 15
Tyr Thr Asn Val
20

<210> 911
<211> 20
<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 911

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Leu | Arg | Leu | Thr | Gly | Trp | Phe | Phe | Arg | Lys | Ser | Ser | Trp | Asp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Phe | Ile | Thr | Val | | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | | |

<210> 912

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 912

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Leu | Arg | Leu | Thr | Gly | Trp | Phe | Phe | Arg | Lys | Arg | Thr | Phe | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Phe | Gln | Leu | Ile | | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | | |

<210> 913

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 913

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Leu | Arg | Leu | Thr | Gly | Trp | Phe | Phe | Arg | Lys | Ile | Ala | Tyr | Phe |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Tyr | Pro | Glu | Leu | | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | | |

<210> 914

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock-protein binding motif to form hybrid antigen

<400> 914

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Trp | Asp | Phe | Ile | Thr | Val |
| 1 | | | | 5 | | | |

<210> 915

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock-protein binding motif to form hybrid antigen

<400> 915

Asp Ala Pro Ile Tyr Thr Asn Val
1 5

<210> 916

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 916

Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala
1 5 10 15
Ser His Leu

<210> 917

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 917

Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Asn Asn Phe Thr
1 5 10 15
Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu
20 25 30

<210> 918

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 918

Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu
1 5 10

<210> 919

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 919

His Trp Asp Phe Ala Trp Pro Trp Asn Gly Ser Gly Asn Asn Phe Thr
1 5 10 15

Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu
 20 25 30

<210> 920
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 920
 Ser Val Tyr Asp Phe Phe Val Trp Leu
 1 5

<210> 921
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 921
 Val Ile Tyr Gln Tyr Met Asp Asp Leu
 1 5

<210> 922
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 922
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ile Leu Lys Glu
 1 5 10 15
 Pro Val His Gly Val
 20

<210> 923
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 923
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Val Ile Tyr Gln
 1 5 10 15
 Tyr Met Asp Asp Leu
 20

<210> 924
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 924
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Leu Tyr Asn
1 5 10 15
Thr Val Ala Thr Leu
20

<210> 925
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Htbrid antigen

<400> 925
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Thr Pro Pro Ala
1 5 10 15
Tyr Arg Pro Pro Asn Ala Pro Ile Leu
20 25

<210> 926
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Htbrid antigen

<400> 926
Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala
1 5 10 15
Ser His Leu Gly Ser Gly Asn Leu Leu Arg Leu Thr Gly Trp
20 25 30